

## Special Issue

# Pyrolysis, Ignition, Combustion and Fire Spread of Combustible Materials

### Message from the Guest Editors

to achieve building energy efficiency, comfort, aesthetics, etc., a variety of exterior thermal and interior decorative materials are widely used in buildings.

However, most of these exterior thermal and interior decorative materials are flammable, which has resulted in the occurrence of numerous fires and caused a large number of casualties and property damage in recent decades. The Special Issue focuses on the pyrolysis, ignition, combustion and fire spread of these diverse and complex combustibles. This issue aims to provide a forum to discuss the research advances in the pyrolysis, ignition, combustion and fire spread of combustible materials, including experiments, simulations, novel technology studies, etc. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Multi-scale fire tests;
- Ignition of combustible material;
- Pyrolysis model of combustible material;
- Combustion and fire spread;
- Thermal response of combustible material;
- Fire risk assessment and safety design;
- Building fire dynamics;
- Fire safety protection and optimization.

We look forward to receiving your contributions.

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### Guest Editors

Dr. Mingjun Xu

Dr. Ruiyu Chen

Dr. Man Pun Wan

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### Deadline for manuscript submissions

closed (31 December 2024)



## Fire

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Impact Factor 2.7  
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*Fire*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fire@mdpi.com](mailto:fire@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Fire* is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

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### Editor-in-Chief

Dr. Grant Williamson  
School of Biological Sciences, University of Tasmania, Private Bag 55,  
Hobart, TAS 7001, Australia

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free for readers, with article processing charges (APC) paid by authors or their institutions.

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#### Journal Rank:

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